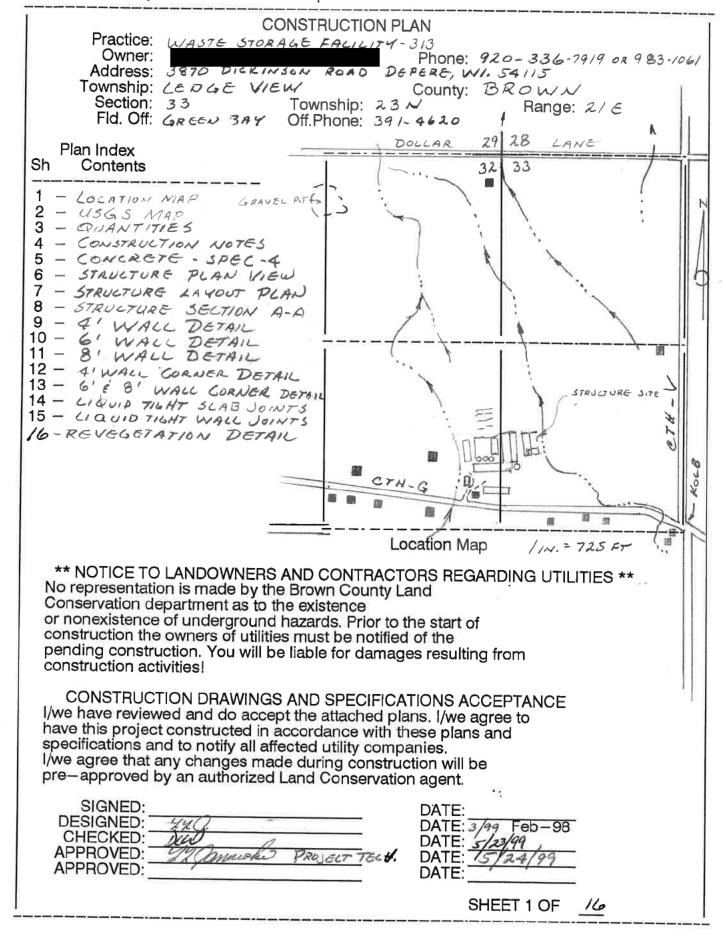


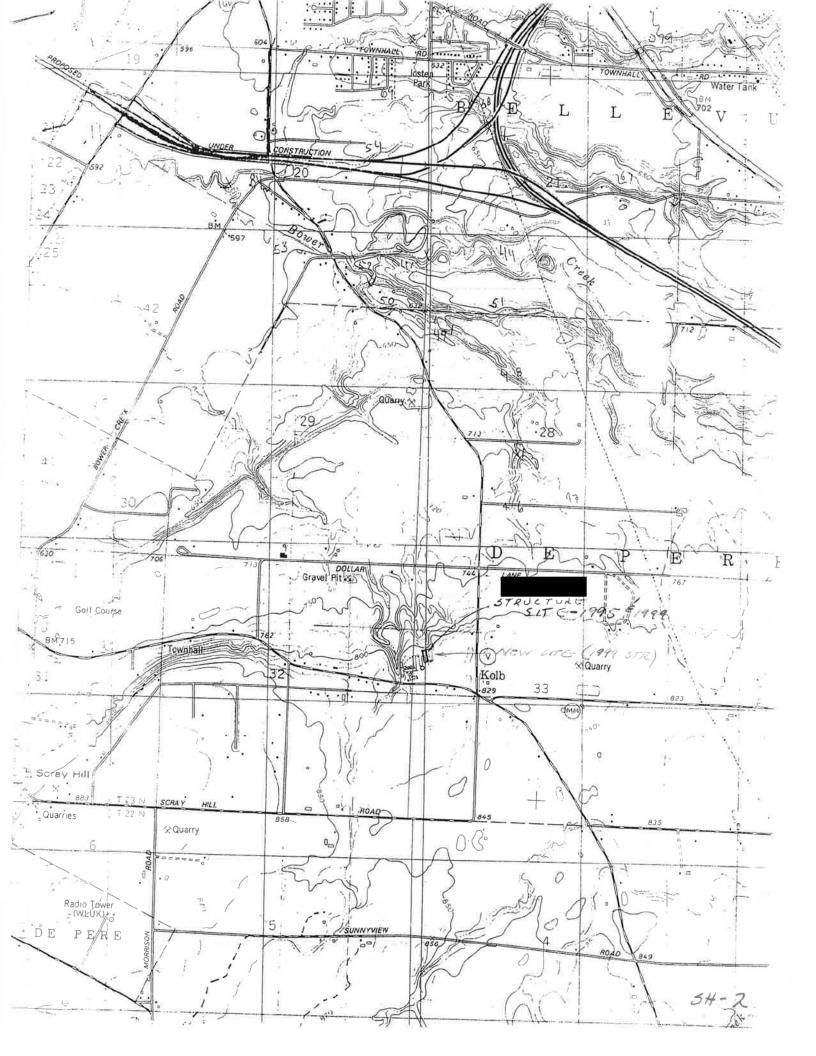
Land Conservation Department

Plan Package

5700048 57R. 1999

AS BUILT DOCUMETION ON SHEETS 2,6,67

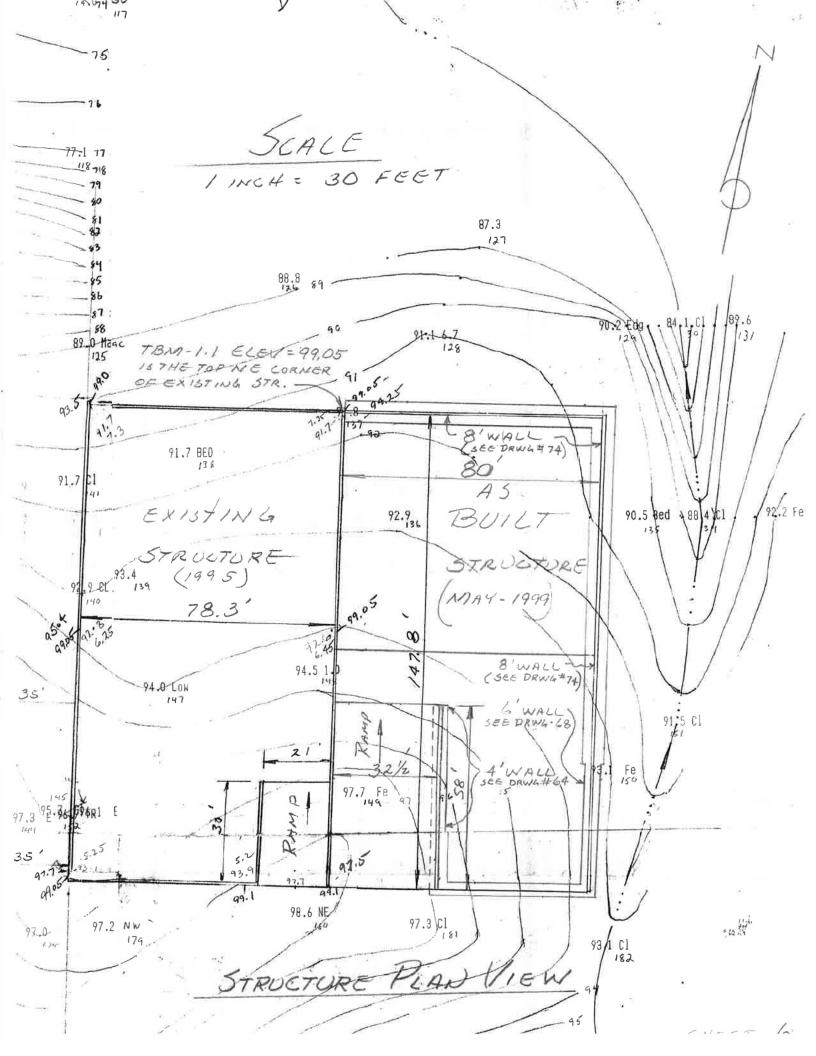




ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY	SHEET	WI. CONSTRUCTION SPEC.
TIEN	0,,1,		NUMBER	OR JOB SHEET NO.
CONCRETE				
1. 8"-WALL	CU. 405.	109	4 THRU 11	
2. 5"-FLOOR	C4. 403.	166	4,5,8 \$ 14	
TOTAL CONCRETE	CU. 4D3	275		
HYDROFLEX WATERSTOP	LN FT	220	15	
6" PVC RIBBED WATER STOP	LNFT	88	14	
		_		
SAND/GRAVEL FILL	CU 405	730	4 ! 8	
WHITE CURING COMPOUND	GALLONS	80	14.1	
REINFORGING STEEL				
#5 IN WALLS	LNFT	5100	9 thru 15	
#4 IN WALLS	LNFT	7626	9 THRU 15	-
##4 IN FLOOR	LNFT	15,740	9THRU 18	
·				

٠Ē	STIMATED	QUAN	11111	-5	_
		OMNE	2		
	BROW			_ LCC,	WI
Desi	gned: %	49 c	heck	ed:	
	SHEET	_3	OF		-



PORTON DER BERTHAM

PART I. FURNISHING CONCRETE

3,500 psi

Fly ash - Type C or F.

Superplasticizers O.K. (Slump'3" Pre, 8" Post)

Retarders O.K. if temperature is over 80° F

Calcium chloride not allowed

Accelerators not allowed

Entrained Air - 4-8%

Slump - 2-5"

Concrete may be supplied in either of two methods:

- Using fly ash and/or superplasticizer Job mix must be preapproved or supplied before pouring.
 - Must have test results to show 28 day strength
 - If mix uses superplasticizer but no fly ash, 6 bags of cement (564 lb.) must be used.
 - If fly ash is used it must be 10-20% of the mix by volume. Minimum cement content is 5 bags (470 lb.)
- exore Selate gitt g 6 bags cement (564 lb.) 6 gal. water bag of cement is maximum permitted. This includes water in aggregate.

Batch ticket info:

Company name Date Amount delivered Admixtures*

Purchaser name Truck no. Time loaded Water added at plant ______ Type & amount of cement* Weights of aggregates* % moisture or weight of water in aggregates

Contractor or Inspector add: Water added at site Time concrete arrived Time concrete unloaded

* Materials info that will remain constant can be submitted with the job mix and need not be on the batch tickets.

ELMICEL OF DATE OF THE

CONCRETE - SPEC 4 - SUMMARY

PART II. - CONCRETE INSTALLATION

Expansion joint material - 1/2" min.

Rebars - Grade 40 or 60; Must be tied in place before poring starts.

Bar splicing - 30 diameters.

Waterstops - 6", center bulb, 3/16" rib min. unless shown on drawings. Use split rib in slabs. Cement or weld joints.

Subgrade - firm and damp

Form release agent (not oil) shall be applied before forms are set.

Placing - Must be within 1 1/2 hr.

No cold joints permitted. Vibrate all walls 4' or higher.

Vertical drop - 5' max. (12' with superplasticizer)

FORM REMOVAL AND FINISHING

inish slabs with ribbed bull float or coarse broom. Sawn joints to be cut as soon as possible and not later than 24 hrs. after pouring.

Forms - Walls - 24 hrs. minimum; can't backfill for 7 days
Tank covers - 7 days min.

Form ties - Non-liquid tight walls - flush with surface Liquid tight walls - 1/2" with cavity patched with grout, mortar mix or epoxy sealer.

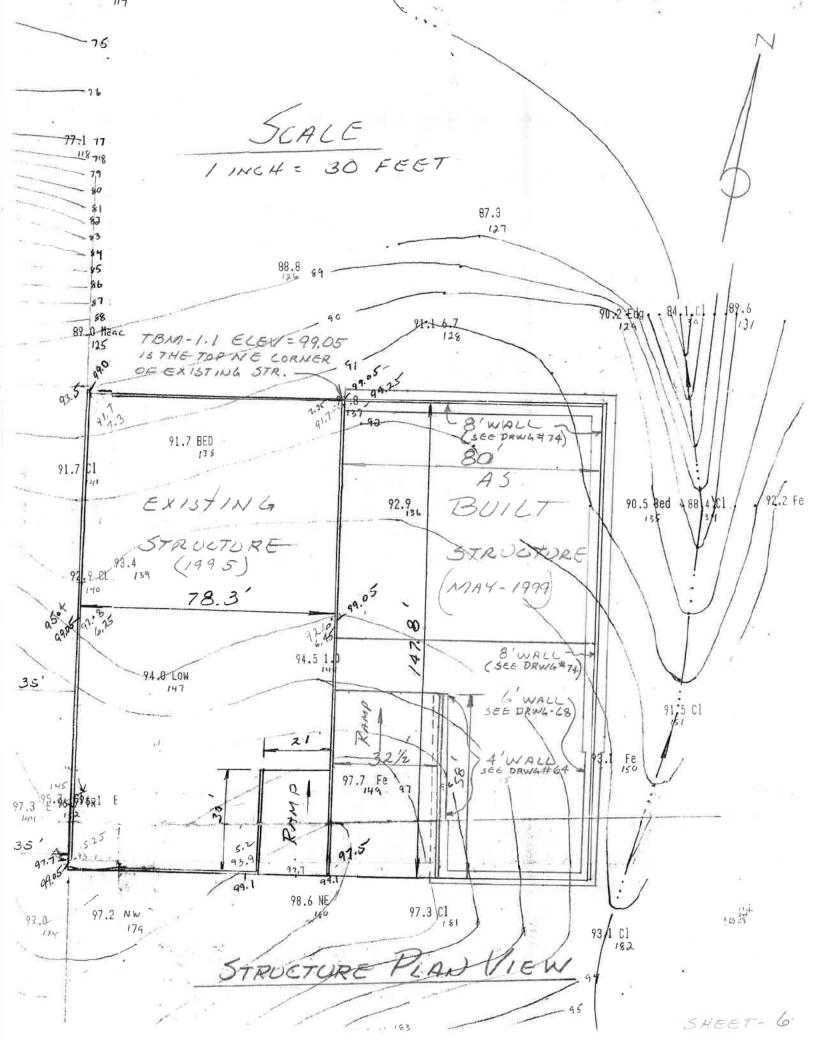
CURING - Use white curing compound; 200 sq. ft/gal. maximum; apply as soon as slab can be walked on or when wall forms are removed. Don't spray on construction joints.

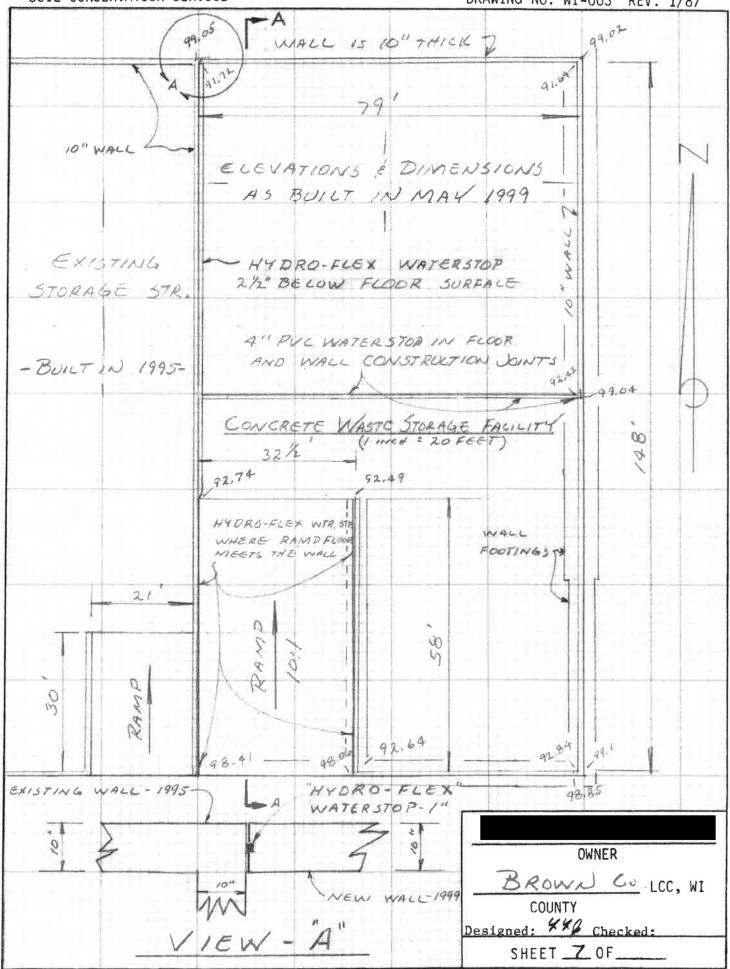
HOT WEATHER (>80 F, and/or low humidity, and/or high wind)
Use set retarder or place within 45 minutes.
In extreme conditions restrict pouring to late in day.

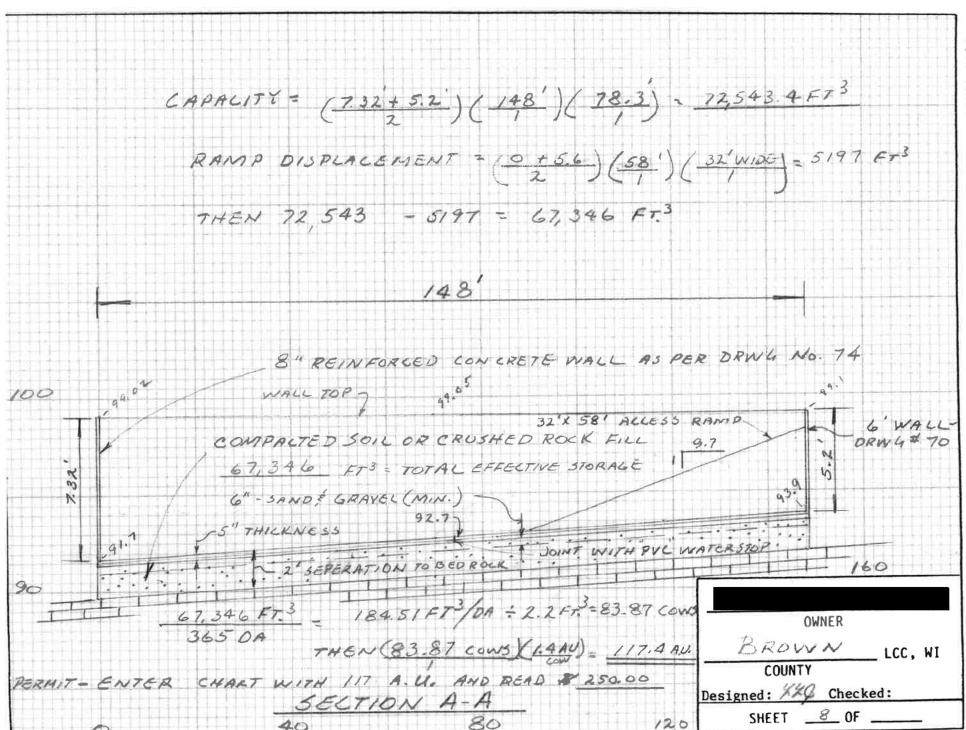
COLD WEATHER (Ave. temp is <40 for 3 days)

Daily min. T. Fe Insulation

Slabs -	2	20	6" straw or hay
Walls: Above		.0	12" straw or hay plastic cover or tarp
		.0	one insulating blankets
Below ground	A . 4 2	O Tablight sont	or 1" styrofoam plastic cover or tarp
*	,1	0 : 122 i o	1" styrofoam or insulating blankets





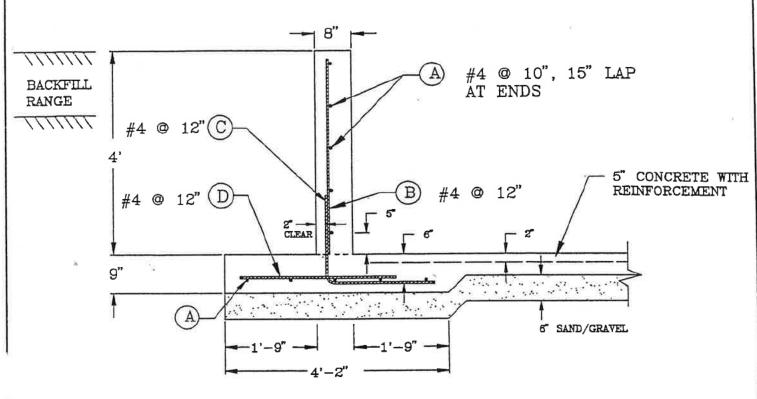


DESIGN VALUES

VANURE — 60 PCF, EQUIVALENT FLUID PRESS. ARTH BACKFILL — 85 PCF, EQUIVALENT FLUID PRESS. 110 PCF, WEIGHT

CONDITIONS OF USE BACKFILL - 3 - 4 FT. TRACTOR SURCHARGE

WORKING STRESS DES .: f = 1400 psi f = 20,000 psi



TYPICAL SECTION

MATERIALS

В

C

D

#4

#4

30

CONCRETE: SPEC. 4

STEEL: 40 GRADE REBARS

QUANTITIES: (WALL & FOOTING ONLY)

CONCRETE (.216 CU.YD. PER LIN. FT.) 6 /2 CU. YD.

STEEL: #4 (21.08 FT. PER LIN. FT.)* 632 FT.

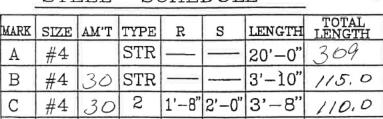
* INCLUDES OVERLAP

TYPE 2

20,0

STEEL SCHEDULE

STR



2'-0"|2'-0"

2'-11'

4 FT. WALL WITH SURCHARGE OWNER DESIGNED: CHECKED:

LINEAL FT. OF WALL: 30 FT.

SHEET 9 OF

DESIGN VALUES

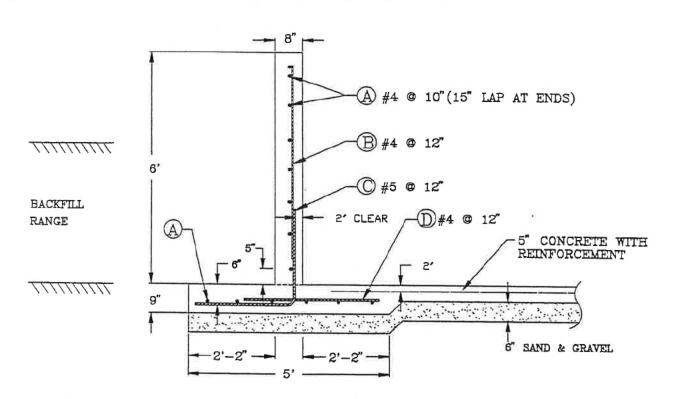
MANURE - 60 PCF, EQUIVALENT FLUID PRESS. EARTH BACKFILL - 60 PCF, EQUIVALENT FLUID PRESS. 110 PCF, WEIGHT

WORKING STRESS DES.: fc = 1400 pai fg = 20,000 pai

CONDITIONS OF USE

BACKFILL - 0 - 4 FT.

NO SURCHARGE
SLAB MUST BE POURED WITH FOOTING



TYPICAL SECTION

TYPE 2

MATERIALS

CONCRETE: SPEC. 4

STEEL: 40 GRADE REBARS

QUANTITIES: (WALL & FOOTING ONLY)

CONCRETE (.289 CU.YD. PER LIN. FT.) 30.3 CU. YD.

STEEL: #4 (23.27 FT. PER LIN. FT.)* 2 4 4 4 FT.

* INCLUDES OVERLAP

STEEL SCHEDULE

		5					
MARK	SIZE	AM'T	TYPE	R	s	LENGTH	TOTAL LENGTH
A	#4		STR	-		20'-0"	
В	#4		STR			5'-0"	
С	#5		2	2'-6"	2'-6"	5'-0"	
D	#4		STR	===		3'-4"	
E	#4		2	2'-0"	2'-0"	4'-0"	

LINEAL FT. OF WALL : 105 FT.

6 FT. WALL
OWNER
DESIGNED: CHECKED:
SHEET /O OF

DESIGN VALUES

MANURE — 60 PCF, EQUIVALENT FLUID PRESS. EARTH BACKFILL — 60 PCF, EQUIVALENT FLUID PRESS. 110 PCF, WEIGHT

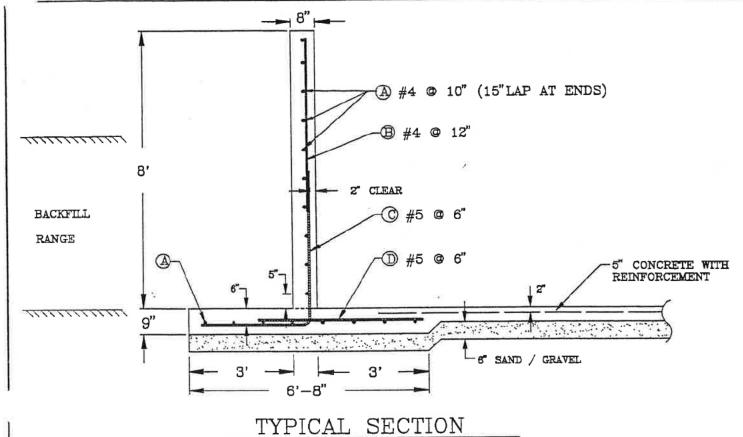
WORKING STRESS DES.: f = 1400 psi f = 20,000 psi

CONDITIONS OF USE

BACKFILL - 0 - 5 FT.

NO SURCHARGE

SLAB MUST BE POURED WITH FOOTING



MATERIALS

CONCRETE: SPEC. 4

STEEL: 40 GRADE REBARS

QUANTITIES: (WALL & FOOTING ONLY)

CONCRETE (.385 CU. YD. PER LIN. FT.) ________ CU. YD.

STEEL: #4 (24.20 FT. PER LIN. FT.)* 4550 FT.

#5 (24.34 FT. PER LIN. FT.)* 4575 FT.

* INCLUDES OVERLAP

STEEL SCHEDULE

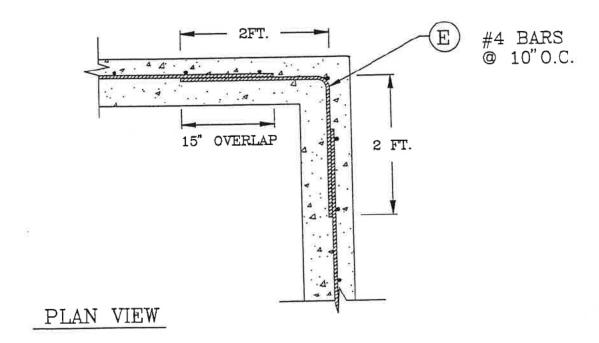
MARK	SIZE	AM'T	TYPE	R	S	LENGTH	TOTAL LENGTH
A	#4		STR	-		20'-0"	
В	#4		STR			5'-0"	
С	#5		2	4'-5"	3'-4"	7'-9"	
D	#5		STR			4'-5"	
मु	#4		2	2'-0"	2'-0"	4'-0"	

LINEAL FT. OF WALL: 188 FT.

8 FT. CONCRETE WALL TYPE 2 OWNER DESIGNED: SHEET / OF

NOTES FOR CONCRETE WALLS

- 1. SURFACE DRAINAGE MUST BE AWAY FROM WALL.
- 2. THE SLAB REINFORCEMENT MUST EXTEND INTO THE FOOTING AND OVERLAP FOOTING STEEL 12" MIN.
- 3. MINIMUM CLEARANCE BETWEEN NEAREST EDGE OF STEEL AND NEAREST SURFACE OF CONCRETE IS 2 IN. FOR FORMED SURFACES AND 3 IN. FOR UNFORMED SURFACES



NOTE: TO BE USED WITH DRAWING #'s 64, 69, 70, 75, & 76.

STANDARDIZED DESIGN; MUST BE ADAPTED TO THE SPECIFIC SITE DESIGN FOLDER IS IN APPLETON OFFICE:

1011 N. LYNNDALE DRIVE

APPLETON, 54914-3091; (414) 734-2061

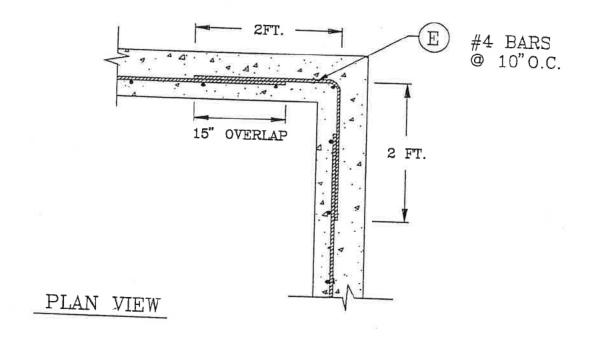
CORN.	ER	DETAIL,
STEEL	ON	OUTSIDE

OWNER

Designed: Checked: SHEET /2 OF _____

NOTES FOR CONCRETE WALLS

- 1. SURFACE DRAINAGE MUST BE AWAY FROM WALL. 2 FT OF BACKFILL IS RECOMMENDED.
- 2. THE SLAB REINFORCEMENT MUST EXTEND INTO THE FOOTING AND OVERLAP FOOTING STEEL 12" MIN.
- 3. MINIMUM CLEARANCE BETWEEN NEAREST EDGE OF STEEL AND NEAREST SURFACE OF CONCRETE IS 2 IN. FOR FORMED SURFACES AND 3 IN. FOR UNFORMED SURFACES



NOTE: TO BE USED WITH DRAWING #'s 68, 71, & 74.

STANDARDIZED DESIGN; MUST BE ADAPTED TO THE SPECIFIC SITE DESIGN FOLDER IS IN APPLETON OFFICE:

1011 N. LYNNDALE DRIVE

APPLETON, 54914-3091; (414) 734-2061

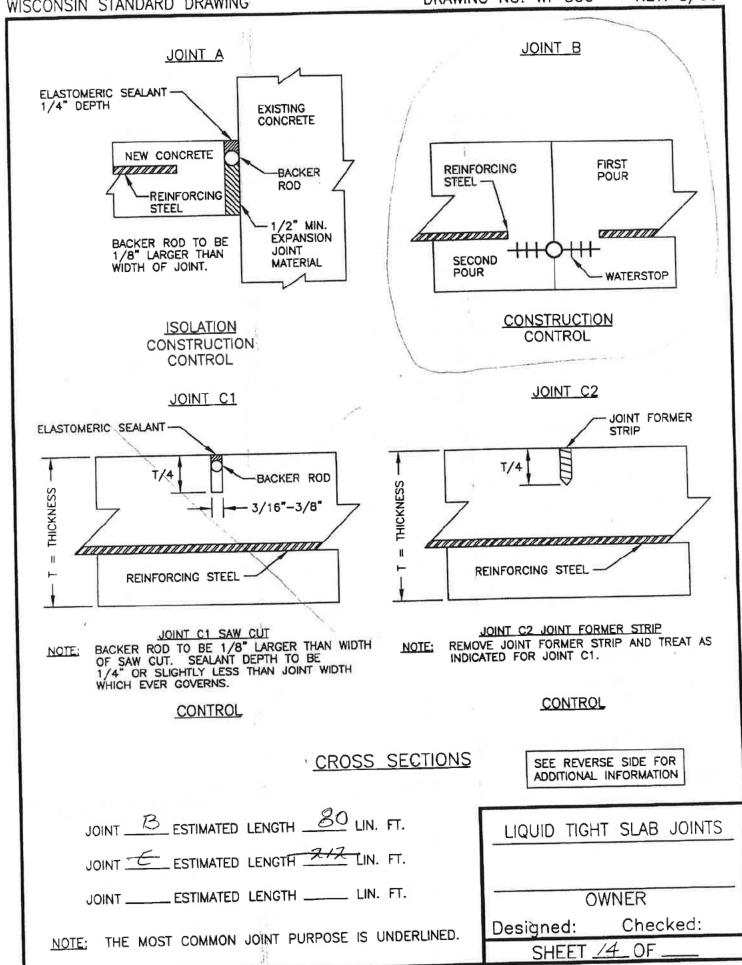
CORNE	IR I	DETAIL,
STEEL	ON	INSIDE

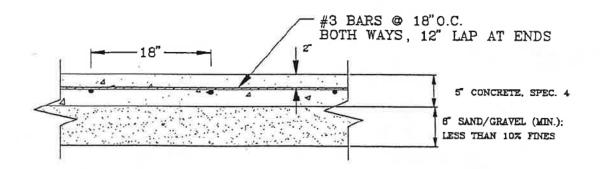
OWNER

Designed:

Checked:

SHEET 13 OF





TYPICAL SECTION

GENERAL CONSTRUCTION NOTES:

- 1. CONCRETE IS TO BE MIXED AND PLACED ACCORDING TO WIS. SPEC. 4.
- 2. JOINTS ARE TO BE SPACED OR LESS EACH WAY, SEE SHEET 15./
- 3. WHITE CURING COMPOUND SHALL BE APPLIED TO CONCRETE AS SOON AS THE CONCRETE CAN BE WALKED ON.
- 4. SITE PREPARATION: REMOVE ALL ORGANIC AND UNCOMPACTED MATERIAL BEFORE PLACING SAND/GRAVEL SUBBASE.
- 5. ANY BARNYARD SLABS OR RAMPS ARE TO BE GROOVED. GROOVES: 1/2"x 1/2" 4 INCHES APART; AT ANGLE TO EQUIPMENT TRAVEL
- 6. SAND/GRAVEL IS TO BE CLEAN PIT-RUN MATERIAL WITH LESS THAN 10% FINES. COMPACT IN 4" LAYERS WITH VIBRATING COMP-PACTOR. DAMPEN THE SAND/GRAVEL BEFORE THE CONCRETE IS POURED.

QUANTITIES:

CONCRETE SLAB
(WALL FOOTINGS NOT INCLUDED)

SAND/GRAVEL 730 CU.YD. (CLEAN, LESS THAN 10% FINES)

REBARS: (## @ 18" O.C. BOTH WAYS) /5,740 LIN.FT. (1.40 LIN.FT. PER SQ. FT.)

WHITE CURING COMPOUND
(ASTM C-309, TYPE 2)

/6,000 SQ.FT.

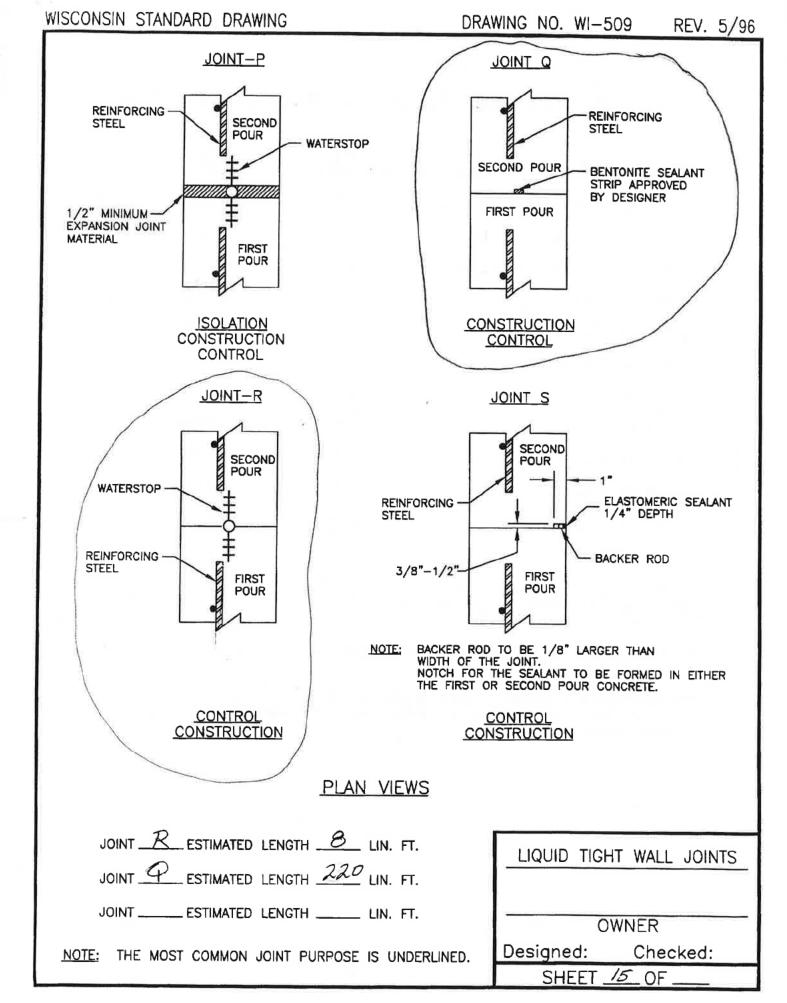
JOINTS: SEE JOINT DRAWINGS FOR TYPES AND LENGTHS.

CONCRETE SLAB WITH REBARS

OWNER

DESIGNED: CHECKED:

SHEET/4.1OF



MAXIMUM DISTANCE BETWEEN CONTROL JOINTS FOR A 5-INCH SLAB

Reinforcement	A _s sq. in./ft.	f _y psi	L ft.
6 x 6 - W1.4 x W1.4 (10 Gage)	.028	65,000	27
6 x 6 - W2.0 x W2.0 (8 Gage)	.040	65,000	38
6 x 6 - W2.9 x W2.9 (6 Gage)	.058	65,000	56
#3 @ 18" C to C	.073	40,000	43
#3 @ 15" C to C	.088	40,000	52
#4 @ 18" C to C	131	40,000	78
#4 @ 15" C to C	.15,7	40,000	93
#3 @ 18" C to C	.073	60,000	65
#3 @ 15" C to C	.088	60,000	78
#4 @ ['] 18" C to C	.131	60,000	117
#4 @ 15" C to C	.157	60,000	140

It is absolutely essential for the reinforcing steel to be in the proper position to provide any advantages from its use. THE PROPER POSITION IS AT OR ABOVE THE MID-DEPTH OF THE SLAB.

A common practice is to specify that the steel be placed 1.5 to 2 inches below the top surface of the concrete slab.

Since positioning is critical, support devices are essential. The steel must be supported with devices spaced to maintain the steel in the correct position during concrete placement.

EFH Notice 210-WI-70 June 1995

SHEC-=15,1

EROWN COUNTY LAND CONSERVATION DEPARTMENT ESTABLISHING AND MAINTAINING VEGETATION

- 1. Make plans for seeding after construction! Seed within 24 hours after construction.
- 2. Obtain needed materials.
 - a. Lime. If needed, apply lime as recommended by soil test.
 - Fertilizer. In lieu of a soil test, apply 400-600 lbs/acre of 20-10-10.
 - c. Seed. Always check the label and seed in pure live seed rates.
 - d. Mulch materials. Mulch with straw or hay that is reasonably free from grain or weed seed.
- 3. Prepare the seedbed with a disk or harrow. After applying fertilizer, work the soil to a depth of 3 inches. On small areas, handwork may be necessary. Failure will result if seedbed is not prepared correctly.
- 4. Mulch should be spread uniformly. The rate the mulch should be spread is 1.5 tons per acre; which is 60 bales per acre or 6 to 7 stems thick. A netting to secure mulch is always recommended.
- 5. Birdsfoot trefoil and crownvetch should be inoculated properly. Seed placement should be at a 1/4 to 1/2 inch deep and should be done immediately after seedbed preparation.
- 6. Maintain by controlling weeds and undesirable woody vegetation. Delay mowing until after July 15 to accommodate ground nesting wildlife. If pastured, always regulate grazing.

MIX# /	2	SEED RATES	PER ACRE	E AND SEE MIX#	D NEEDED	IN POUNDS LOCATION	
	6,2	ACRES				ACRES	
SPECIES		RATE	#SEED	SPECI	ES	RATE	#SEED
		PER ACRE	NEEDED			PER ACRE	NEEDED
SMOOTH B	ROME	25	5				
TIMOTA		9	ス	*			
REO C	LOVER	4	7				
		ENTS: ARE			OWNER		
VEGETA		13 THE				:•	
AROUND	THE	PERIME	CR OF	THE		440	
STRUCT	URE.	APPROXII	MATELY	251	DESIGNET):	CHECKED:
W100	FOR	310 LNF	- T = 77.	50 FT.2	SHEET	16 0	F
	,2 A						//